Substitute for form 1449/PTO & 1449B/PTO

## RO DUA **FIRST** INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of . Sheet

. [(JUU PR	Complete if Known	
Application Number	10/780,638	
Date	February 19, 2004	
First Named Inventor	Ming Bo Wang et al.	
Examiner Name	Cathy Kingdon Worley	
Attorney Docket No.	1021565-000156	

U.S. PATENT DOCUMENTS								
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)				
RK	5,354,854		BOURQUE et al.	10-11-1994				
RK	6,146,886		THOMPSON	11-14-2000				

	FOREIGN PATENT DOCUMENTS										
STATUS											
Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec
RK	02/29028	A2	International	04-11-2002		<u> </u>					X
RK	0 387 775	B1	EP	03-13-1990		<u> </u>					X
RK	02/059294	A1	International	08-01-2002				X			
RK	00/63397	A2	International	10-26-2000				X			
RK	99/53050	A1	International	10-21-1999				X			
RK	98/530083	A1	International	11-26-1998				X			
RK											

	NON-PATENT LITERATURE DOCUMENTS								
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title c serial, symposium, catalog, etc.), date, page(s), volu	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.							
RK	BOURQUE et al., "Suppression of gene expr transcribed by RNA polymerase III," Plant Mo Academic Publishers, Belgium.	ression in plant o	ells utilizing antisense sequences						
RK	BRUMMELKAMP et al., "A System for Stable Cells," <i>Science</i> , 2002, vol. 296, pp. 550-552, Science, Washington, D.C	American Asso	ciation for the Advancement of						
RK	ELBASHIR et al., "Duplexes of 21-nucleotide mammalian cells," <i>Nature</i> , 2001, vol. 411, pp	. 494-498, Natu	re Publishing Group, London, England.						
R <b>K</b>	FIRE et al., "Potent and specific genetic inter elegans," <i>Nature</i> , 1998, vol. 391, pp. 806-81	ference by doub	le-stranded RNA in Caenorhabditis						
RK	HAMILTON et al., "A transgene with repeate suppression of ACC-oxidase gene expression pp. 737-746, Blackwell Sciences, Oxford, En	d DNA causes h n in tomato," <i>Th</i>	igh frequency, post-transcriptional						
RK	MIYAGISHI et al., "U6 promoter - driven siRt targeted gene expression in mammalian cells Nature America, New York, New York.	NAs with jour uri	dine 3' overhangs efficiently suppress chnology, 2002, vol. 20, pp. 497-500,						
RK	PADDISON et al., "Short hairpin RNAs (shRl cells," Genes & Development, 2002, vol. 16, Cold Spring Harbor, New York.	pp. 948-958, Co	ld Spring Harbor Laboratory Press,						
RK	PAUL et al., "Effective expression of small in 2002, vol. 20, pp. 505-508, Nature America,	terfering RNA in New York, New	human cells," <i>Nature Biotechnology</i> , York.						
RK	SUI et al., "A DNA vector-based RNAi techno	ology to suppres	s gene expression in mammalian						
Examiner Signature	/Russell Kallis/	Date Considered	01/22/2007						

FIRST
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT PROPERTY (use as many sheets as necessary)

<u>,                                     </u>	Complete if Known	
Agolication Number	10/780,638	
Ving Date	February 19, 2004	
First Named Inventor	Ming Bo Wang et al.	
Examiner Name	Cathy Kingdon Worley	
Attorney Docket No.	1021565-000156	

			Attorney Docket No.	1021565-000156
Sheet	2 of	2		
			NON-PATENT LITERATURE	DOCUMENTS
	_			
Examiner	Includ	de name of the	author (in CAPITAL LETTERS), title of the article	e (when appropriate), title of the item

1	MON-FAILNI LITERATURE DOCUMENTS
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
RK	cells," PNAS, vol. 99, no. 8, National Academy of Sciences, Washington, D.C.
RK	WATERHOUSE et al., 'Virus resistance and gene silencing in plants can be induced by
	simultaneous expression of sense and antisense RNA," <i>Proc. Natl. Acad. Sci. USA</i> , 1998, vol. 95, pp. 13959-13964, The National Academy of Sciences, Washington, D.C.
<del></del>	William Act District Act of the National Academy of Sciences, Washington, D.C.
D. 2	YUKAWA et al., "Plant 7SL RNA and tRNAtyr genes with inserted antisense sequences are
RK	efficiently expressed in an in vitro transcription system from Nicotiana tabacum cells," Plant
	Molecular Biology, 2002, vol. 50, pp. 713-723, Kluwer Academic Publishers, The Netherlands.
1	MARSHALLSAY et al., "Characterization of the U3 and U6 snRNA genes from wheat: U3 snRNA
	genes in monocot plants are transcribed by RNA polymerase III," Plant Molecular Biology, 1992,
RK	vol. 19, pp. 973-983, Kluwer Academic Publishers, The Netherlands.
	WANG et al., "Application of gene silencing in plants," Current Opinion in Plant Biology, 2001, vol.
RK	5, pp. 146-150, Current Biology Ltd., London, England.
DV	WATERHOUSE et al., "Exploring Plant Genomes by RNA-Induced Gene Silencing," Nature, 2003,
RK	vol. 4, pp. 29-38, Nature Publishing Group, London, England.
	KLAHRE et al., "High molecular weight RNAs and small interfering RNAs induce systemic
RK	posttranscriptional gene silencing in plants," PNAS, 2002, vol. 99, no. 18, pp. 11981-11986, The
	National Academy of Sciences, Washington, D.C.
RK	MCMANUS et al., "Gene silencing using micro-RNA designed hairpins," RNA, 2002, vol. 8, pp. 842-
	850, Cambridge University Press, U.S.A.
	PADDISON et al., "Short hairpin RNAs (shRNAs) induce sequence-specific silencing in mammalian
RK	cells, Genes & Development, 2002, vol. 16, pp. 948-958, Cold Spring Harbor Laboratory Press,
	New York, New York.
RK	Gene Therapy Systems Inc. Catalog at index and Tables 1 and 2 (2002)
***	(http://www.genetherapysystems.com/catalog/index.cfm.) (accessed 18 March 2004).
חש	Ambion Inc. RNA interference and gene silencing-history and overview (May 20, 2002)
RK	(http://www.ambien.com/techlib/hettopics/rnai/may2002_print.html) (accessed 2 March 2004).
•	,, \

I Examiner		Date	
	l'	Date	
Signature	/Russell Kallis/	Canaidaead	01/22/2007
1 Oignatore	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Considered	1 01/22/2001
	<u></u>	L	

		NON	$\boldsymbol{v}$ .	Ĺ
ubctitute for form 1440/PTO & 1440P/P	Ŧ0	1101	•	Τ

## SECOND INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

Sheet 1

Æ)	Complete if Known	
pplication Number	10/780,638	
iling Date	February 19, 2004	
irst Named Inventor	Ming Bo Wang et al.	
xaminer Name	Russell Kallis	
Attorney Docket No.	1021565-000156	

U.S. PATENT DOCUMENTS							
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)			

	FOREIGN PATENT DOCUMENTS										
							5	TATUS			
Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec

	NON-PATENT LITERATURE DOCUMENTS					
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
RK	WAIBEL et al., "U6 snRNA genes of <i>Arabidopsis</i> are transcribed by RNA polymerase III but contain the same two upstream promoter elements as RNA polymerase II-transcribed U-snRNA genes," <u>Nucleic Acids</u> <u>Research</u> , 1990, vol. 18, no. 12, pp. 3451-3458, Oxford University Press, London, England.					
RK	WAIBEL et al., "RNA-polymerase specificity of transcription of <i>Arabidopsis</i> U snRNA genes determined by promoter element spacing", <u>Nature</u> , 1990, vol. 346, pp. 199-202, Nature Publishing Group, London, England.					
RK	"A. thaliana gene At7SL-1 for 7SL RNA," NCBI Entrez Accession No. X72228, 19-JUN-1995 (downloaded from www.ncbi.nih.gov on 3/02/2009).					
RK	"A. thaliana gene At7SL-2 for 7SL RNA," NCBI Entrez Accession No. X72229, 19-JUN-1995 (dewnloaded from www.ncbi.nih.gov on 3/02/2003).					
RK	"Arabidopsis thaliana 7SL-3 gene for signal recognition particle," NCBI Entrez Accession No. AJ290403, 26-APR-2001 (downloaded from www.ncbi.nih.gov on 44/40/2006).					
RK	"Humulus lupulus H17SL-1 gene for signal recognition particle," NCBI Entrez Accession No. AJ236706, 28-JAN-2000 (dewnloaded from www.ncbi.nih.gov on 11/18/2006).					
RK	"Humulus lupulus H17SL-2 gene and 7 SL RNA pseudogene," NCBI Entrez Accession No. AJ236704, 28 JAN-2000 (dewnloaded from www.ncbi.nih.gov on 11/10/2006).					
RK	"Humulus lupulus H17SL-3 gene for signal recognition particle," NCBI Entrez Accession No. AJ236705, 28-JAN-2000 (dewnloaded from www.nobi.nih.gov on 11/10/2000).					
RK	"Humulus lupulus H17SL-4 gene for signal recognition particle," NCBI Entrez Accession No. AJ236703, 03-MAR-2003 (dewnloaded from www.ncbi.nih.gov on 11/10/2006).					
RK	"Arabidopsis thaliana U6-1 snRNA gene," NCBI Entrez Accession No. X52527, 01-OCT-1990 (downloaded from www.nebi.nih.gev-en-93/92/2003).					
RK	"Arabidopsis thaliana U6-26 snRNA gene," NCBI Entrez Accession No. X52528, 01-OCT-1990 (downloaded-from www.nebi.nih.gov on 03/02/2003).					
RK	"Arabidopsis thaliana U6-29 snRNA gene," NCBI Entrez Accession No. X52529, 01-OCT-1990 (dewnloaded-from www.nebi.nih.gev-en-93/93/2003).					
RK	"Zea mays of USE gene encoding U3snRNA," NCBI Entrez Accession No. Z29641, 19-JAN-1995 (downloaded from www.nebi.nih.gov on 99/92/2999).					
RK	"S. tuberosum gene for U6 small nuclear RNA," NCBI Entrez Accession No. Z17301, 11-MAY-1995 (downloaded from www.ncbi.nih.gov.on.03/02/2003).					
RK	"Tomato U5 small nuclear RNA gene," NCBI Entrez Accession No. X51447, 13-MAR-1990 (downloaded from www.nebi.nih.gov on 93/92/2993).					

Examiner		Date	01/22/2007
	/_	Date	1 01/22/2007 1
Signature	/Russell Kallis/	Compidence	1 01/22/2007
Signature	\vappell valled	Considered	l ' '
1 -	•	· · · · · · · · · · · · · · · · · · ·	1

Substitute for fofin 1449/PTO & 1449B/PTO

## SECOND INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known				
Application Number	10/780,638			
Filing Date	February 19, 2004			
First Named Inventor	Ming Bo Wang et al.			
Examiner Name	Russell Kallis			
Attorney Docket No.	1021565-000156			

NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
RK	"A. thaliana U3C snRNA gene," NCBI Entrez Accession No. X52630, 27-SEP-1990 (downloaded from www.ncbi.nih.gov on 63/02/2003).			
RK	"A. thaliana gene for U3B small nuclear RNA (snRNA)," NCBI Entrez Accession No. X52629, 27-SEP-1990 (downloaded from www.ncbi.nih.gov on 03/02/2003).			

Examiner		Date		
Signature	/Russell Kallis/	Considered	01/22/2007	